

Virginia Regulatory Town Hall

Periodic Review of Existing Regulations Agency Background Document

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| Agency Name: | State Air Pollution Control Board |
| Regulation Title: | Regulations for the Control and Abatement of Air Pollution |
| Subtitle: | Air Pollution Episode Prevention |
| VAC Number: | 9 VAC 5 Chapter 70 (9 VAC 5-70-10 et seq.) |
| Date: | |

This information is required pursuant to the Administrative Process Act § 9-6.14:25 and Executive Order Twenty-Five (98) which outline procedures for periodic review of regulations of agencies within the executive branch. Each existing regulation is to be reviewed at least once every three years and measured against the specific public health, safety, and welfare goals assigned by agencies during the promulgation process.

Summary

Please provide a brief summary of the regulation and its purpose. There is no need to state each provision, instead give a general description of the regulation.

The regulation establishes procedures to be taken when an "air pollution episode" occurs. An air pollution episode is a situation which is declared by responsible authorities when weather or air pollution conditions or both indicate a potential threat to human health. This regulation describes the escalating stages of air conditions, and the concurrent control requirements. The purpose of the regulation is to prevent the excessive buildup of air pollutants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of the pollutants on human health.

Legal Requirements

Please identify the state and/or federal source of the legal requirements that necessitate promulgation of the regulation. The discussion of these requirements should include a description of their scope and the extent to which the requirements are mandatory or discretionary. Full citations for the legal requirements and, if available, web site addresses for locating the text of the cited legal provisions should be provided.

Federal Requirements

Federal Clean Air Act (CAA):
<http://www.epa.gov/ttn/oarpg/gener.html>

Code of Federal Regulations (CFR):

<http://www.access.gpo.gov/nara/cfr/cfr-retrieve.html>

Federal Register (FR):

http://www.gpo.gov/su_docs/aces/aces140.html

Section 110(a) of the Clean Air Act (CAA) mandates that each state adopt and submit to EPA a plan which provides for the implementation, maintenance, and enforcement of each primary and secondary air quality standard within each air quality control region in the state. The state implementation plan shall be adopted only after reasonable public notice is given and public hearings are held. The plan shall include provisions to accomplish, among other tasks, the following:

(1) establish enforceable emission limitations and other control measures as necessary to comply with the provisions of the CAA, including economic incentives such as fees, marketable permits, and auctions of emissions rights;

(2) establish schedules for compliance;

(3) prohibit emissions which would contribute to nonattainment of the standards or interference with maintenance of the standards by any state; and

(4) require sources of air pollution to install, maintain, and replace monitoring equipment as necessary and to report periodically on emissions-related data.

40 CFR Part 51 sets out requirements for the preparation, adoption, and submittal of state implementation plans. These requirements mandate that any such plan shall include several provisions, including those summarized below.

Subpart G (Control Strategy) specifies the description of control measures and schedules for implementation, the description of emissions reductions estimates sufficient to attain and maintain the standards, time periods for demonstrations of the control strategy's adequacy, an emissions inventory, an air quality data summary, data availability, special requirements for lead emissions, stack height provisions, and intermittent control systems.

Subpart H (Prevention of Air Pollution Emergency Episodes) deals with prevention of air pollution emergency episodes. Section 51.150 provides a classification system for episode plans. Significant harm levels are established in section 51.151, and requirements for contingency plans are described in section 51.152. Section 51.153 requires that states periodically review these plans. Finally, Appendix L provides example regulations for prevention of air pollution episodes.

Subpart L (Legal Authority) specifies the requirements for legal authority to implement plans.

Section 51.230 under Subpart L specifies that each state implementation plan must show that the state has the legal authority to carry out the plan, including the authority to perform the following actions:

(1) adopt emission standards and limitations and any other measures necessary for the attainment and maintenance of the national ambient air quality standards;

(2) enforce applicable laws, regulations, and standards, and seek injunctive relief;

(3) abate pollutant emissions on an emergency basis to prevent substantial endangerment to the health of persons;

(4) prevent construction, modification, or operation of a facility, building, structure, or installation, or combination thereof, which directly or indirectly results or may result in emissions of any air pollutant at any location which will prevent the attainment or maintenance of a national standard;

(5) obtain information necessary to determine whether air pollution sources are in compliance with applicable laws, regulations, and standards, including authority to require record-keeping and to make inspections and conduct tests of air pollution sources;

(6) require owners or operators of stationary sources to install, maintain, and use emission monitoring devices and to make periodic reports to the state on the nature and amounts of emissions from such stationary sources; and

(7) make emissions data available to the public as reported and as correlated with any applicable emission standards or limitations.

Section 51.231 under Subpart L requires the identification of legal authority as follows:

(1) the provisions of law or regulation which the state determines provide the authorities required under this section must be specifically identified, and copies of such laws or regulations must be submitted with the plan; and

(2) the plan must show that the legal authorities specified in this subpart are available to the state at the time of submission of the plan.

State Requirements

Code of Virginia:

<http://leg1.state.va.us/000/cod/codec.htm>

Virginia Administrative Code (VAC):

<http://leg1.state.va.us/000/reg/toc.htm>

Code of Virginia § 10.1-1307 A provides that the board may, among other activities, develop a comprehensive program for the study, abatement, and control of all sources of air pollution in the Commonwealth.

Code of Virginia § 10.1-1308 provides that the board shall have the power to promulgate regulations abating, controlling, and prohibiting air pollution throughout or in any part of the Commonwealth in accordance with the provisions of the Administrative Process Act.

Comparison with Statutory Requirements

No provision of the regulation exceeds the specific minimum requirements of any legally binding state or federal mandate.

The agency performed an analysis to determine if statutory mandates justify continuation of the regulation. The analysis revealed that statutory justification does exist for the regulation. The regulation was adopted in order to implement the policy set forth in the Virginia Air Pollution Control Law and to fulfill the Commonwealth's responsibilities under the federal Clean Air Act to provide a legally enforceable State Implementation Plan for the control of criteria pollutants. These statutes still remain in force with the provisions that initiated adoption of the regulation still intact.

Analysis reveals that the regulation is consistent with applicable state and federal regulations, statutory provisions, and judicial decisions. Factors and circumstances (federal statutes, original intent, state air quality program, and air pollution control methodology and technology) which justified the original issuance of the regulation have not changed to a degree that would justify a change to the basic requirements of the regulation.

This conclusion was reached by comparing the state regulation with the federal regulation. With the exception of language included to make the regulation easier to understand and comply with, as well as to be consistent with the board's regulations as a whole, this regulation follows EPA's example regulation in Appendix L of 40 CFR Part 51. Emission levels and control actions are identical in the regulation and Appendix L.

Public Comment

Please summarize all public comment received as the result of the Notice of Periodic Review published in the Virginia Register and provide the agency response. If no public comment was received, please include a statement indicating that fact

No public input was received during the public comment period for this periodic review.

Effectiveness

Please provide a description of the specific and measurable regulatory goals of the regulation. Detail the effectiveness of the regulation in achieving such goals.

The regulation has been effective in achieving its specific and measurable goals, which are as follows:

1. To protect public health and welfare with the least possible cost and intrusiveness to the citizens and businesses of the Commonwealth.
2. To establish procedures to prevent the air quality from reaching levels which could cause significant harm to public health.

Need

Please provide the specific reasons the agency has determined that the regulation is essential to protect the health, safety or welfare of citizens or is essential for the efficient and economical performance of an important governmental function. Include a discussion of the problems the regulation's provisions are intended to solve.

Among the primary goals of the federal Clean Air Act are the attainment and maintenance of the National Ambient Air Quality Standards (NAAQS) and the prevention of significant deterioration (PSD) of air quality in areas cleaner than the NAAQS.

The NAAQS, developed and promulgated by the U.S. Environmental Protection Agency (EPA), establish the maximum limits of pollutants that are permitted in the outside ambient air. EPA requires that each state submit a plan (called a State Implementation Plan or SIP), including any laws and regulations necessary to enforce the plan, that shows how the air pollution concentrations will be reduced to levels at or below these standards (attainment). Once the pollution levels are within the standards, the SIP must also demonstrate how the state will maintain the air pollution concentrations at the reduced levels (maintenance).

A SIP is the key to the state's air quality programs. The Clean Air Act is specific concerning the elements required for an acceptable SIP. If a state does not prepare such a plan, or EPA does not approve a submitted plan, then EPA itself is empowered to take the necessary actions to attain and maintain the air quality standards--that is, it would have to promulgate and implement an air quality plan for that state. EPA is also, by law, required to impose sanctions in cases where there is no approved plan or the plan is not being implemented, the sanctions consisting of loss of federal funds for highways and other projects and/or more restrictive requirements for new industry. Generally, the plan is revised, as needed, based upon changes in the federal Clean Air Act and its requirements.

The basic approach to developing a SIP is to examine air quality across the state, delineate areas where air quality needs improvement, determine the degree of improvement necessary, inventory the sources contributing to the problem, develop a control strategy to reduce emissions from contributing sources enough to bring about

attainment of the air quality standards, implement the strategy, and take the steps necessary to ensure that the air quality standards are not violated in the future.

The heart of the SIP is the control strategy. The control strategy describes the emission reduction measures to be used by the state to attain and maintain the air quality standards. There are three basic types of measures: stationary source control measures, mobile source control measures, and transportation source control measures. Stationary source control measures are directed at limiting emissions primarily from commercial/industrial facilities and operations and include the following: emission limits, control technology requirements, preconstruction permit programs for new industry and expansions, and source-specific control requirements. Stationary source control measures also include area source control measures which are directed at small businesses and consumer activities. Mobile source control measures are directed at tailpipe and other emissions primarily from motor vehicles and include the following: Federal Motor Vehicle Emission Standards, fuel volatility limits, reformulated gasoline, emissions control system anti-tampering programs, and inspection and maintenance programs. Transportation source control measures limit the location and use of motor vehicles and include the following: carpools, special bus lanes, rapid transit systems, commuter park and ride lots, bicycle lanes, signal system improvements, and many others.

Federal guidance on states' approaches to the inclusion of control measures in the SIP has varied considerably over the years, ranging from very general in the early years of the Clean Air Act to very specific in more recent years. Many regulatory requirements were adopted in the 1970s when no detailed guidance existed. The legally binding federal mandate for these regulations is general, not specific, consisting of the Clean Air Act's broad-based directive to states to attain and maintain the air quality standards. However, in recent years, the Clean Air Act, along with EPA regulations and policy, has become much more specific, thereby removing much of the states' discretion to craft their own air quality control programs.

Generally, a SIP is revised, as needed, based upon changes in air quality or statutory requirements. For the most part the SIP has worked, and the standards have been attained for most pollutants in most areas.

Alternatives

Please describe the process by which the agency has considered, or will consider, less burdensome and less intrusive alternatives for achieving the need. Also describe, to the extent known, the specific alternatives that have been considered and will be considered to meet the need, and the reasoning by which the agency has rejected any of the alternatives considered.

Alternatives have been considered by the Department to meet the need. The Department has determined that retention of the regulation (the first alternative) is appropriate, as it is the least burdensome and least intrusive alternative that fully meets the statutory requirements and need for the regulation. The alternatives considered by the Department,

along with the reasoning by which the Department has rejected any of the alternatives considered, are discussed below.

1. Retain the regulation without amendment. This option was chosen because the current regulation provides the least onerous method for complying with the minimum requirements of the legal mandates.
2. Make alternative regulatory changes to those required by the provisions of the legally binding state or federal mandates. This option was not chosen because it could result in the imposition of requirements that place unreasonable hardships on the regulated community without justifiable benefits.
3. Repeal the regulation or amend it to satisfy the provisions of the legally binding state or federal mandates. This option was not chosen because the regulation is effective in meeting its goals and already satisfies those mandates.

Clarity of the Regulation

Please provide a statement indicating that the agency, through examination of the regulation and relevant public comments, has determined that the regulation is clearly written and easily understandable by the individuals and entities affected.

The Department, through examination of the regulation and relevant public comments, has determined that the regulation is clearly written and easily understandable by the individuals and entities affected.

Family Impact Statement

Please provide a preliminary analysis of the potential impact of the regulation on the institution of the family and family stability including to what extent the regulation will: 1) strengthen or erode the authority and rights of parents in the education, nurturing, and supervision of their children; 2) encourage or discourage economic self-sufficiency, self-pride, and the assumption of responsibility for oneself, one's spouse, and one's children and/or elderly parents; 3) strengthen or erode the marital commitment; 4) increase or decrease disposable family income.

It is not anticipated that these regulation amendments will have a direct impact on families. However, there will be positive indirect impacts in that the regulation amendments will ensure that the Commonwealth's air pollution control regulations will function as effectively as possible, thus contributing to reductions in related health and welfare problems.

Recommendation

Please state whether the agency is recommending the regulation be retained and the reasons such a recommendation is being made.

The regulation satisfies the provisions of the legally binding state or federal requirements and is effective in meeting its goals; therefore, it is recommended that the regulation be retained without amendment.

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